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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/707,844	11/08/2000	Hidetoshi Ishida	0819-448	9493
22204 75	90 11/04/2002			
NIXON PEABODY, LLP			EXAMINER	
8180 GREENSBORO DRIVE SUITE 800 MCLEAN, VA 22102			FARAHANI, DANA	
			ART UNIT	PAPER NUMBER
			2814	
			DATE MAILED: 11/04/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/707,844	ISHIDA ET AL.
Office Action Summary	Examiner	Art Unit
	Dana Farahani	2814
The MAILING DATE of this communication	appears on the cover sheet wit	
Period for Reply		
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b). Status	N. R 1.136(a). In no event, however, may a re- reply within the statutory minimum of thirty- riod will apply and will expire SIX (6) MONT atute, cause the application to become AB/	eply be timely filed (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133)
1) Responsive to communication(s) filed on 2	28 August 2002	
· · · · · · · · · · · · · · · · · · ·	This action is non-final.	
3) Since this application is in condition for allo		ters, prosecution as to the merits is
closed in accordance with the practice und Disposition of Claims		
4) Claim(s) 1-7 is/are pending in the application	on.	
4a) Of the above claim(s) is/are withd	drawn from consideration.	
5) Claim(s) is/are allowed.		
6)⊠ Claim(s) <u>1-7</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and	d/or election requirement.	
Application Papers		
9)☐ The specification is objected to by the Exami	iner.	
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to by th	e Examiner.
Applicant may not request that any objection to		
11) The proposed drawing correction filed on		sapproved by the Examiner.
If approved, corrected drawings are required in	• •	
12) The oath or declaration is objected to by the	Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for fore	eign priority under 35 U.S.C. §	119(a)-(d) or (f).
a) All b) Some * c) None of:		
1. Certified copies of the priority docume		
2. Certified copies of the priority docume	·	· ————
 3. Copies of the certified copies of the preparation of the International International Internation of the American Section 1 in the Internation of the	Bureau (PCT Rule 17.2(a)).	· ·
14) Acknowledgment is made of a claim for dome	estic priority under 35 U.S.C. §	119(e) (to a provisional application).
a) ☐ The translation of the foreign language parts. The translation of the foreign language parts. The foreign language parts are translated as a claim for domestic translated as a claim for	provisional application has be	en received
Attachment(s)	(,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s	5) Notice of In	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)
Patent and Trademark Office O-326 (Rev. 04-01) Office	Action Summary	Part of Paper No. 6

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3, 4, and 6 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujita (U.S. 5,485,039), previously cited.

Regarding claim 1, Fujita discloses in figure 1, a semiconductor substrate 1; at least two semiconductor components 2 provided on the principle surface of the substrate; and multiple through holes, not numbered, which pass form the principle surface through the backside of the substrate and are provided in a region of the substrate between the at least tow components so as to substantially eliminate the electrical interference between the two components.

Regarding claims 3 and 4, a conductor film 6 is formed on the side faces of the through holes.

Regarding claim 6, Fujita discloses in figure 1, a semiconductor substrate 1; at least two semiconductor components 2 provided on the principle surface of the substrate; electrodes 3 of the at least two components provided on the substrate so as to substantially eliminate the electrical interference between the two components; a first group of through holes, not numbered, are under the electrodes; a first conductor film 6 provided on the side faces of the first group of through holes; a second group of through

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holes, which pass from the principle surface through the backside of the substrate and are provided in a region of the substrate between the components; a second conductor film 6 provided on the side faces of the second group of through holes; and a wiring layer, horizontal part of film 6, is on the back side of the substrate.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2, 5, and 7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujita.

Regarding claim 2, Fujita discloses the claimed invention except the gap between two adjacent ones of the through holes is smaller than the thickness of the substrate. It would have been obvious to one of ordinary skill in the art at the time the invention was made to make the gap between two adjacent ones of the through holes smaller than the thickness of the substrate in order to make the device smaller.

Regarding claims 5 and 7, Fujita discloses the claimed invention except each component is a power-amplifying transistor. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use power-amplifying transistors as components 2 in order to use the device in a desired application, along with other circuits to be connected to the components.

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Response to Arguments

5. Applicant's arguments filed 8/28/02 have been fully considered but they are not persuasive.

Applicant mainly argues that the device in Fujita achieves a different purpose and does not teach the effect of maintaining isolation between the semiconductor components. This is not found persuasive, since Fujita discloses the invention as claimed, as set forth in the above rejections, further disclosing electrical isolation between electrical components. Note that in figures 1 and 2, element 4 is an insulation and element 8 an adhesive. Therefore, there could not be any electrical interference between elements 2, since an adhesive is also an insulator, and the adhesive along with insulation 4 would not allow any electrical interference between devices 2.

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dana Farahani whose telephone number is (703)305-1914. The examiner can normally be reached on M-F 9:00AM - 6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (703)308-4918. The fax phone numbers for the organization where this application or proceeding is assigned are (703)872-9318 for regular communications and (703)872-9319 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

Dana Farahani October 29, 2002

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